
# Enhance Public Safety with Broadband Wireless Networks

Today, crime, especially violent crime and gunfire in our cities are a significant challenge to citizens, to law enforcement agents, fire, ambulance and other first-responding personnel. In fact, gunfire is the leading cause of crime-related deaths in the nation:

- Nearly 81 people per day die as a result of a gunshot in the U.S. – that's an average of 1 every 18 minutes[1]
- An average of one police officer dies from a gunshot wound every 10 days[2]

City, state and provincial governments have ongoing challenges to address and suppress such crime, while efficiently and effectively utilizing their assets and amid escalating city, county and state revenue shortfalls. Technology based systems, such as gunshot detection and video surveillance coupled with proactive policing and targeted enforcement enable law enforcement agencies to meet such challenges.

In addition to public safety benefits, suppressing violent crime and maintaining law and order in communities improves general business conditions, positively impacts property values, and raises the credibility of elected officials.

[1] Center for Disease Control and Prevention, 2004.

[2] Alan Jay Fox (Northeastern University) and Marianne Zawitz, Homicide Trends in the United States, Bureau of Justice Statistics, Department of Justice.

## Your goals become reality with Cisco® Wireless Infrastructure coupled with Gunshot Location Systems and Video Surveillance.

### Gunshot Detection and Location Systems to the Rescue...

- 60% to 80% of urban gunfire is not reported by citizens, and when they do, they often give imprecise information.
- A gunshot detection and location system, automatically alerts dispatch and call centers in seconds with precise details that include the exact map location, the nearest street address, indications of the number of shooters, the number of rounds fired, the types of weapons discharged, and situational awareness regarding the overall severity of the incident.
- With a gunshot detection and location system, first responders can reach the scene of an incident before the average citizen places a call to 9-1-1 (the average time that it takes citizens to report gunfire via 9-1-1 is 2.5 minutes).
- As a result, victims receive help sooner, bystanders protected, witnesses interviewed, and crime scene data preserved.
- The GPS coordinates calculated by a gunshot detection and location system can be received by a video urveillance system to slew cameras to the scene of an incident.
- In addition, the information captured by a gunshot detection and location system, provides forensic evidence to drive targeted enforcement, reenact crime scenes, and support convictions.

## Who's Using Video Surveillance?

### Outdoor metropolitan video surveillance is widely used throughout the U.S.A. and abroad, as examples:

- The United Kingdom has a very high density of video cameras estimated at over 4 million.
- Washington, DC is increasing the number of gunshot sensors and installing as many as 4,800 video cameras.
- Chicago may soon have 6,000 cameras run by schools, police, and other agencies.
- Plus New Orleans; Boston; Westminster, England; and Zurich, Switzerland rely on advanced video surveillance technology to keep citizens safe.

## The Cisco Wireless Gunshot Location and Video Surveillance Network

The Cisco Wireless Gunshot Location and Video Surveillance Network is an integrated, high-performance solution that allows public safety agencies to easily deploy scalable tactical wireless networks that support gunshot detection and location, and digital video surveillance. Agencies can deploy at hotspots and expand as needed to cover an entire city. These flexible deployment options and powerful capabilities include:

- Receive violent gunfire-related crime alerts in seconds with invaluable situational awareness. Dispatchers and call-takers can now know what occurred and have an instant indication of the severity of the incident. Local area networks enable the deployment of situational awareness consoles at dispatch and call-taker stations and in supervisor offices.
- Extending the situational awareness beyond the dispatch and call centers. Gunfire-related crime alerts and invaluable situational awareness can be sent to supervisors and agents in the field for display on mobile data computers, handheld devices, and other mobile platforms.
- Interoperability enables fusion into a common operating picture. Alert and situational awareness data can be received by computer aided dispatch systems to streamline calls for service, and video surveillance systems can use that information to slew cameras to the scene of an incident and record visual evidence.
- Wireless data networking enables placement of gunshot detection sensors and video surveillance cameras at optimal locations. Untethering sensors and cameras (except for the need for AC main power) enables placement at the locations best suited for hearing and triangulating the location of gunfire, and to capture visual evidence of nefarious activity.
- In effect, the wireless network brings the eyes and ears of law enforcement personnel to the scene of the incident.

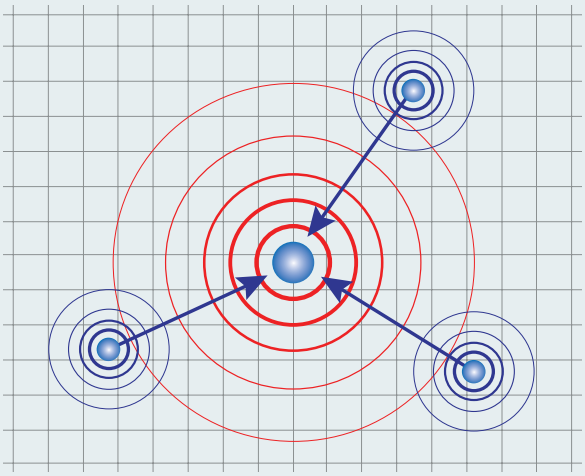
## Improving Public Safety

Working with partner SpotShotter, Inc.® the market leader in gunshot detection and location systems, Cisco's Wireless Gunshot Location and Video Surveillance Network will aid law enforcement agencies to suppress crime and realize positive results:

- Significantly improves public safety. In the city areas where their sensors have been deployed, ShotSpotter reports that its customer agencies achieve reductions of overall gunfire rates between 60 to 80 percent, reductions of violent crime by 35 percent, and increasing in the confiscation of illegal weapons. The system also provides information on a shooter's location, including drive-by shooters in motion, as well as detailed intelligence and forensic analysis to drive and support varrests and prosecutions.
- Provides law enforcement with real-time gunshot alerts for prompt dispatch and rapid arrival on scene. The ShotSpotter system cuts police response time by providing near real-time notification with a precise location of gunfire events. Officers and agents can arrive in time to save bleeding victims, to interview witnesses, and to capture invaluable forensic evidence.
- Situational awareness and fusion into a common operating picture enables faster prioritization and dispatch, more appropriate force response, and improved officer safety. Bringing audio, video, and other incident details with data networked interoperability to command and control centers enables dispatchers and supervisors to more quickly and accurately assess the situation and initiate the appropriate actions. As a result, first responders arrive on the scene with better tactical awareness of the situation.
- Reduces costs. Integrating a variety of applications into the network enables public agencies to take full advantage of their technology investments through converged communications.

### Cisco Gunshot Location and Surveliance Solution Improves Public Safety

- **Alert**
- **Locate**
- **Protect**
- **Investigate and Prosecute**



## Built on the Cisco Open Platform for Safety and Security

Cisco's Wireless Gunshot Location and Video Surveillance Network runs on the Cisco Open Platform for Safety and Security (COPSS), a scalable, high-performance architecture that supports the deployment of acoustic sensors that feed gunshot detection and location systems, and the deployment of cameras that comprise video surveillance systems, as well as a wide range of other types of hazard detection sensors and public service and safety applications.

## The Strength of the Cisco Wireless Gunshot Location and Video Surveillance Network

- Resilience—With a focus on maintaining continuous uptime, the Cisco Wireless Gunshot Location and Video Surveillance Network optimizes the accessibility and transmission of vital—lifesaving—information, from the incident and to the public service personnel.
- Protection—Fully embedded network-wide security—from core to perimeter and beyond your organization's walls—enables the Gunshot Location and Wireless Surveillance Network to provide comprehensive protection of information and applications.
- Responsiveness—Public services personnel can access information at any time, from any location, through wireless-enabled and remote-ready applications and devices.
- Interaction—By converging voice, video, and data on a single system and dynamically connecting in-agency and remote public services personnel, the Cisco Wireless Gunshot Location and Video Surveillance Network strengthens communication among first responders and allows for increased public security and safety

The effectiveness of your city's public safety—not to mention the security of your personnel and citizens—is impacted significantly by your ability to provide immediate, accurate information to first responders. The Cisco Wireless Gunshot Location and Video Surveillance Network ensures that you have the right critical protection technology infrastructure, tools and products to support your wireless gunshot detection and video surveillance program. The result is heightened safety, as well as significant savings through vastly improved productivity.

## Why Cisco for Gunshot Location and Wireless Surveillance?

As the company that built the backbone to the Internet, we're the world's leader in creating trusted, reliable solutions that route data to the appropriate place – increasing your network speed and bandwidth.

The hallmark of Cisco's solutions is collaboration. We provide advanced technologies for public safety agencies that want to increase collaboration and productivity while they increase effectiveness.

Just like with the Gunshot Location and Video Surveillance Wireless Network we connect people across cities and continents, transforming the way they live, work and play.

"By fusing the ShotSpotter technology with our wireless surveillance camera system, Paterson police will have a significant advantage over the criminal element," said Torres. "Being able to know when and where a gunshot is fired and have a camera focus on and record the incident gives police an incredible amount of situational awareness and evidence. These complementary technologies will be a significant tool for bettering public safety and improving our community's quality of life."

— Mayor Jose Torres, Mayor of Paterson New Jersey
Source: Patterson New Jersey Press Release, September, 2007

### Learn More

For additional information about the solution that helps you leverage your network to gain the benefits of gunfire detection, location, and video surveillance, please contact your Cisco representative or visit: www.cisco.com/go/government

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